



## SEQUENCE LISTING

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POWERS, SCOTT  
SIN, WUN CHEY  
YANG, JIANXIN

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<140> 10/715,117

<141> 2003-11-18

<150> 60/427,202

<151> 2002-11-19

<150> 60/434,434

<151> 2002-12-19

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<170> PatentIn Ver. 3.2

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 Glu Pro Val Pro Ser His Trp Thr Val Val Pro Asp Glu Asp Phe Val  
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<212> DNA

<213> Homo sapiens

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 Ala Gly Val Ala Tyr Leu Phe Leu Met Phe His Thr Gly Pro Arg Thr  
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 Ala Arg Leu Ser Leu Glu Gly Trp Phe Leu Arg Gln Gly Leu Leu Asp  
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 Arg His Arg Ser Val Met Ala Val Gln Leu His Ser Arg Leu Pro Arg  
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 Gly Arg Val Val Met Leu Ile Val Gly Val Trp Val Ala Ala Leu Gly  
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&lt;400&gt; 9

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Leu	Leu	Ala	Phe	Val	Ala	Cys	Trp	Gly	Pro	Leu	Phe	Leu	Leu	Leu	Leu
		260						265					270		
Leu	Asp	Val	Ala	Cys	Pro	Ala	Arg	Thr	Cys	Pro	Val	Leu	Leu	Gln	Ala
	275						280					285			

Asp Pro Phe Leu Gly Leu Ala Met Ala Asn Ser Leu Leu Asn Pro Ile  
 290 295 300

Ile Tyr Thr Leu Thr Asn Arg Asp Leu Arg His Ala Leu Leu Arg Leu  
 305 310 315 320

Val Cys Cys Gly Arg His Ser Cys Gly Arg Asp Pro Ser Gly Ser Gln  
 325 330 335

Gln Ser Ala Ser Ala Ala Glu Ala Ser Gly Gly Leu Arg Arg Cys Leu  
 340 345 350

Pro Pro Gly Leu Asp Gly Ser Phe Ser Gly Ser Glu Arg Ser Ser Pro  
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<211> 1197

<212> DNA

<213> Homo sapiens

<400> 10

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<210> 11  
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       siRNA sequence  
  
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 <400> 15  
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<210> 16  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 16  
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<210> 17  
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<400> 17  
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<210> 18  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 18  
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<210> 19  
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<400> 19  
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<210> 20  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 20  
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<210> 21  
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<400> 21  
gccaccgcca gaagagccc 19

<210> 22  
<211> 19  
<212> RNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
siRNA sequence

<400> 22  
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<210> 23  
<211> 6  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
termination sequence

<400> 23  
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<210> 24  
<211> 8  
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<220>  
<223> Description of Artificial Sequence: Illustrative  
nucleotide loop sequence

<400> 24  
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<210> 25  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 25  
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<210> 26  
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 <212> DNA  
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<220>  
 <223> Description of Combined DNA/RNA Molecule:  
 Synthetic hairpin construct

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 hairpin construct

<400> 26  
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<210> 27  
 <211> 52  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 model nucleotide sequence

<400> 27  
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<210> 28  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 28  
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<210> 29  
<211> 73  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
nucleotide hairpin sequence

<400> 29  
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<210> 30  
<211> 73  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 30  
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gtcctttcca caa 73

<210> 31  
<211> 73  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 31  
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gtcctttcca caa 73

<210> 32  
<211> 73  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 32  
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 gtcctttcca caa 73

<210> 33  
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<400> 33  
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<210> 34  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
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 gtcctttcca caa 73

<210> 35  
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<400> 35  
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<210> 36  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

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 gtcctttcca caa 73



<210> 37  
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 <212> DNA  
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<400> 37  
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19

<210> 38  
 <211> 73  
 <212> DNA  
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 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 38  
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 gtcctttcca caa 73

<210> 39  
 <211> 19  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
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19

<210> 40  
 <211> 29  
 <212> DNA  
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<400> 40  
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29

<210> 41  
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 <212> RNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 41  
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29

<210> 42  
 <211> 29  
 <212> DNA  
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<400> 42  
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<210> 43  
 <211> 29  
 <212> RNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 43  
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<210> 44  
 <211> 29  
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 <213> Homo sapiens

<400> 44  
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<210> 45  
 <211> 29  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 45  
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<210> 46  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 46  
 gctggttcct gcggcagggc ttgctggac 29

<210> 47  
 <211> 29  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 47  
 gcugguuccu gcggcagggc uugcuggac 29

<210> 48  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
 gaacggccac ccactgatgg actccaccc 29

<210> 49  
 <211> 29  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 49  
 gaacggccac ccacugaugg acuccaccc 29

<210> 50  
 <211> 68  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Combined DNA/RNA Molecule:  
 Synthetic hairpin construct

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 hairpin construct

<400> 50  
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 atcgguu 68

<210> 51  
<211> 72  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
model nucleotide sequence

<400> 51  
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atcggctttt tt 72

<210> 52  
<211> 72  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 52  
aaaaaagccg atggtctcgt tgtagtagca ctggccaagc ttcgccagtg ctactacaac 60  
gagaccatcg gc 72

<210> 53  
<211> 93  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
nucleotide hairpin sequence

<400> 53  
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<210> 54  
<211> 93  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 54  
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ccactggcgg ccggtgtttc gtcctttcca caa 93

<210> 55  
 <211> 29  
 <212> DNA  
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<400> 55  
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<210> 56  
 <211> 93  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 56  
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 gctggtcata gcggtgtttc gtcctttcca caa 93

<210> 57  
 <211> 29  
 <212> DNA  
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<400> 57  
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<210> 58  
 <211> 93  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 58  
 aaaaaagacc agcaagccct gccgcaggaa ccagccaagc ttcgctgggt cctgcggcag 60  
 ggcttgctgg acggtgtttc gtcctttcca caa 93

<210> 59  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
gctggttcct gcggcagggc ttgctggac 29

<210> 60  
<211> 93  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
primer

<400> 60  
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tggaactccac ccggtgtttc gtcctttcca caa 93

<210> 61  
<211> 29  
<212> DNA  
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<400> 61  
gaacggccac ccactgatgg actccaccc 29

<210> 62  
<211> 29  
<212> DNA  
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<400> 62  
tgggcagctt gtactcggag tacctgaac 29

<210> 63  
<211> 29  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
siRNA sequence

<400> 63  
ugggcagcuu guacucggag uaccugaac 29

<210> 64  
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<212> DNA  
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<400> 64  
gggcagcttg tactcggagt acctgaacc 29

<210> 65  
<211> 29  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
siRNA sequence

<400> 65  
gggcagcuug uacucggagu accugaacc 29

<210> 66  
<211> 29  
<212> DNA  
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<400> 66  
ggcagcttgt actcggagta cctgaaccc 29

<210> 67  
<211> 29  
<212> RNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
siRNA sequence

<400> 67  
ggcagcuugu acucggagua ccugaaccc 29

<210> 68  
<211> 29  
<212> DNA  
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<400> 68  
gaggcgggtc gggaccccg ggcaccacc 29

<210> 69  
<211> 29  
<212> RNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
siRNA sequence

<400> 69

gaggcggguc gggacccccg gccaccacc

29

<210> 70

<211> 68

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Combined DNA/RNA Molecule:  
Synthetic hairpin construct

<220>

<223> Description of Artificial Sequence: Synthetic  
hairpin construct

<400> 70

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ctgaacuu 68

<210> 71

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
model nucleotide sequence

<400> 71

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ctgaactttt tt 72

<210> 72

<211> 72

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
primer

<400> 72

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gagtaccta ac 72



<210> 73  
 <211> 93  
 <212> DNA  
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<220>

<223> Description of Artificial Sequence: Synthetic  
 nucleotide hairpin sequence

<400> 73  
 aaaaaagttc aggtactccg agtacaagct gccacaagc ttctgggcag cttgtactcg 60  
 gagtacctga acggtgtttc gtcctttcca caa 93

<210> 74  
 <211> 93  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 primer

<400> 74  
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 agtacctgaa ccggtgtttc gtcctttcca caa 93

<210> 75  
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 <212> DNA  
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<400> 75  
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<210> 76  
 <211> 93  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 primer

<400> 76  
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 gtacctgaac ccggtgtttc gtcctttcca caa 93

<210> 77  
 <211> 29  
 <212> DNA  
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<400> 77  
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29

<210> 78  
 <211> 93  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 78  
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 cgggccacca ccggtgtttc gtcctttcca caa 93

<210> 79  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 79  
 gaggcgggtc gggaccccg ggcaccacc

29

<210> 80  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 80  
 tggagtcggg gctgctgcgg ccggcgccg

29

<210> 81  
 <211> 29  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 81  
 uggagucggg gcugcugcgg ccggcgccg

29

<210> 82  
 <211> 29  
 <212> RNA  
 <213> Homo sapiens  
  
 <400> 82  
 ggagucgggg cugcugcggc cggcgccgg 29  
  
 <210> 83  
 <211> 29  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         siRNA sequence  
  
 <400> 83  
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 <210> 84  
 <211> 29  
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 <400> 84  
 gagtcggggc tgctgcggcc ggcgccggt 29  
  
 <210> 85  
 <211> 29  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Synthetic  
         siRNA sequence  
  
 <400> 85  
 gagucggggc ugcugcggcc ggcgccggu 29  
  
 <210> 86  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 86  
 ggactctggt atcagaaccg gctgcagac 29

<210> 87  
 <211> 29  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 siRNA sequence

<400> 87  
 ggacucuggu aucagaaccg gcugcagac

29

<210> 88  
 <211> 68  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Combined DNA/RNA Molecule:  
 Synthetic hairpin construct

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 hairpin construct

<400> 88  
 gtctgcagcc ggttctgata ccagagtccg aagcuuggga ctctggtatc agaaccggct 60  
 gcagacuu 68

<210> 89  
 <211> 72  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 nucleotide model sequence

<400> 89  
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 gcagactttt tt 72

<210> 90  
 <211> 72  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

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 ccggctgcag ac 72

<210> 91  
 <211> 93  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 nucleotide hairpin sequence

<400> 91  
 aaaaaagtct gcagccgggt ctgataccag agtcccaagc ttcggactct ggtatcagaa 60  
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<210> 92  
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 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 92  
 aaaaaagacg atgacctcgc tcaccggcgc cggcccaagc ttcggccggc gccggtgagc 60  
 gaggtcatcg tcgggtgttc gtcctttcca caa 93

<210> 93  
 <211> 29  
 <212> DNA  
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<400> 93  
 ggccggcgcc ggtgagcgag gtcacgtc 29

<210> 94  
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 <212> DNA  
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 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 94  
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 aggtcatcgt ccgggtgttc gtcctttcca caa 93

<210> 95  
 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 95  
 gccggcgccg gtgagcgagg tcatcgctcc 29

<210> 96  
 <211> 93  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
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<400> 96  
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 <211> 29  
 <212> DNA  
 <213> Homo sapiens

<400> 97  
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<210> 98  
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<220>  
 <223> Description of Artificial Sequence: Synthetic  
 primer

<400> 98  
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<210> 99  
 <211> 29  
 <212> DNA  
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<400> 99  
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